

Title (en)

PROCESS FOR DIFFERENTIATION OF VASCULAR ENDOTHELIAL PROGENITOR CELLS FROM EMBRYOID BODIES DERIVED FROM EMBRYONIC STEM CELLS USING HYPOXIC MEDIA CONDITION

Title (de)

VERFAHREN ZUR DIFFERENZIERUNG VASKULÄRER ENDOTHELIALER VORLÄUFERZELLEN VON EMBRYOIDKÖRPERN AUS EMBRYONISCHEN STAMMZELLEN UNTER HYPOXISCHEN BEDINGUNGEN

Title (fr)

PROCÉDÉ DE DIFFÉRENCIATION DE CELLULES PROGÉNITRICES ENDOTHÉLIALES VASCULAIRES À PARTIR DE CORPS EMBRYOÏDES DÉRIVÉS DE CELLULES SOUCHES EMBRYONNAIRES FAISANT APPEL À DES CONDITIONS DE MILIEUX HYPOXIQUES

Publication

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Application

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Abstract (en)

[origin: WO2009035217A1] The present invention provides a process for differentiation of vascular endothelial progenitor cells from embryoid bodies derived from embryonic stem cells, the process comprising: (a) treating a culture medium comprising embryoid bodies derived from embryonic stem cells such that the concentration of oxygen dissolved in the culture medium is in the range of about 1 ppm to about 5 ppm; (b) culturing the culture medium prepared in step (a) in an incubator in which the oxygen (O<sub>2</sub>) tension is equal to or less than about 15 % to differentiate the embryoid bodies into vascular endothelial progenitor cells; and (c) isolating the vascular endothelial progenitor cells from the culture medium obtained in step (b).

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